TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-01-05** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at 1st A main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Sharath S, No:07, 2nd Block, Gugganahalli, Rajajinagara, Bangalore-560010
Customer Reference	:	BBMP/EE/BTP/WO/264/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-17
Sample ID No	:	2017-04-01-05/01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	01-04-17

AE-ID Laddu

AEE (VRP) SD

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	176	176	3.5	96.5	95-100
3	10 mm	2296	2472	49.4	50.6	25-55
4	4.75 mm	2381	4853	97.1	2.9	0-5
5	Pan	147	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-01-05** **Date: 05-04-2017**

Sample ID No : 2017-04-01-05/01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	9.2	–
2	Elongation Index(%)	11.5	–
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.23	–
7	Ten percent fine value(KN)	192.5	–
8	Aggregate crushing Value(%)	23.1	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	21.7	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

Note:
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Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL PRO BANGALORE Sig.....
Date.....
R.KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

Sadha
AE

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-01-05** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at 1st A main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Sharath S, No:07, 2nd Block, Gugganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/264/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-04-17
Sample ID No	:	2017-04-01-05/01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	01-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	195	195	3.9	96.1	95-100
3	20 mm	1873	2068	41.36	58.6	30-70
4	10 mm	2217	4285	85.7	14.3	10-35
5	4.75 mm	605	4890	97.8	2.2	0-5
6	Pan	110	5000	100	0.0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-01-05** **Date: 05-04-2017**

Sample ID No : 2017-04-01-05/01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**12.4**	_
2	Elongation Index(%)	**11.1**	_
3	Specific Gravity	**2.62**	_
4	Bulk Density(Loose) (Kg/l)	**1.53**	_
5	Bulk Density(Compacted) (Kg/l)	**1.59**	_
6	Water Absorption(%)	**0.19**	_

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Prepared by
Harshitha

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FOR CIVIL Pro.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-04-01-05** **Date: 05-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at 1st A main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.Sharath S, No:07, 2nd Block, Gugganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/264/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-17
Sample ID No	:	2017-04-01-05/02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	01-04-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	26	26	2.6	97.4	90-100	90-100	90-100	95-100
3	2.36 mm	131	157	15.7	84.3	60-95	75-100	85-100	95-100
4	1.18 mm	226	383	38.3	61.7	30-70	55-90	75-100	90-100
5	600 micron	219	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	225	827	82.7	17.3	5-20	8-30	12-40	15-50
7	150 micron	89	916	91.6	8.4	0-10	0-10	0-10	0-15
8	Pan	84	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Sadha AE

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-01-05**

Date: 05-04-17

Sample ID No : 2017-04-01-05/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	1.89	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron	7.6	Not more than 15 percent

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Prepared by
Harshitha

FOR CIVIL Pro.

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R.KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-03-08-02** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and Drains at 1st A main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency		Sri.Sharath S, No:07, 2nd Block, Gugganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/264/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-17
Sample ID No	:	2017-03-08-02-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	08-03-2017 to 05-04-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.12	–
2	Finess by Air permeablity method (m2/kg, Min)	278.6	225m^2/kg, Min
3	Density (gm/cc)	3.21	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	215 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-03-08-02** **Date: 05-04-2017**

Sample ID No : **2017-03-08-02-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-01-05**	**Date: 05-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and Drains at 1st A main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.	
Agency	:	Sri.Sharath S, No:07, 2nd Block, Gugganahalli, Rajajinagara, Bangalore-560010	
Customer's Reference	:	BBMP/EE/BTP/WO/264/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-04-17	
Sample ID No	:	2017-04-01-05/03	
Sample Type	:	Bhuwalka Gold Fe500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	04-04-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Bhuwalka Gold	Fe500	8mm	0.389	542	628	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Bhuwalka Gold	Fe500	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-01-05**	**Date: 05-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and Drains at 1st A main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.	
Agency	:	Sri.Sharath S, No:07, 2nd Block, Gugganahalli, Rajajinagara, Bangalore-560010	
Customer's Reference	:	BBMP/EE/BTP/WO/264/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-04-17	
Sample ID No	:	2017-04-01-05/03	
Sample Type	:	Bhuwalka Gold Fe500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	04-04-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Bhuwalka Gold	Fe500	10mm	0.609	561	674	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Bhuwalka Gold	Fe500	10mm	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-12-02** **Date: 12-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at 1st A main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Sharath S, No:07, 2nd Block, Gugganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/264/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-07

Sample ID No : 2017-04-12-02/01

Customer ID : PCC(1:2:4)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC(1:2:4)	M15	05/04/2017	12/04/2017	151.76 X 150.22 X 150.02	22797	8.198	298.6	13.1	12.8
2	PCC(1:2:4)	M15	05/04/2017	12/04/2017	150.26 X 150.22 X 150.38	22572	8.205	282.2	12.5	
3	PCC(1:2:4)	M15	05/04/2017	12/04/2017	150.07 X 151.82 X 151.76	22784	8.163	289.4	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-12-02** **Date: 15-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and Drains at 1st A main Nanjappa Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.Sharath S, No:07, 2nd Block, Gugganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/264/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-07

Sample ID No : 2017-04-12-02/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	08/04/2017	15/04/2017	151.98 X 150.82 X 150.28	22922	8.176	382.8	16.7	16.9
2	Drain Concrete	M20	08/04/2017	15/04/2017	150.76 X 150.88 X 150.67	22747	8.143	391.2	17.2	
3	Drain Concrete	M20	08/04/2017	15/04/2017	150.20 X 150.92 X 150.87	22668	8.192	383.1	16.9	

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